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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/667,701	09/22/2003	Daniel L. Woodell	03CR096/KE	9251
7590 09/28/2004			EXAMINER	
Attention: Ky	le Eppele	SOTOMAYOR, JOHN B		
ROCKWELL COLLINS, INC. 400 Collins Rd. NE M/S 124-323 Cedar Rapids, IA 52498			ART UNIT	PAPER NUMBER
			3662	
			DATE MAILED: 09/28/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

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()	Application No.	Applicant(s)				
	10/667,701	WOODELL ET AL.				
Office Action Summary	Examiner	Art Unit				
	John B. Sotomayor	3662				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	ely filed swill be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 2a) This action is FINAL . 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) <u>1-20</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) <u>1-10</u> is/are allowed. 6) Claim(s) <u>11-20</u> is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or						
Application Papers						
9)☐ The specification is objected to by the Examiner 10)☒ The drawing(s) filed on 22 September 2003 is/a Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction 11)☐ The oath or declaration is objected to by the Examiner	re: a)⊠ accepted or b)⊡ object frawing(s) be held in abeyance. See on is required if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of	have been received. have been received in Application ty documents have been receive (PCT Rule 17.2(a)).	on No d in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 22SEP 03.	4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:					

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Drawings

2. The drawings filed October 21, 2003 appear to be informal and are acceptable for examination purposes.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 11-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ammar et al ('926) or Kuntman ('558) in view of Baron, Sr. et al ('609).

The invention is substantially disclosed by either Ammar et al ('926) or Kuntman ('558) who disclose a weather radar system including, inter alia, receiving weather radar returns and applying thresholds. However, it appears that Ammar et al ('926) or Kuntman ('558) do not show providing a model of weather systems.

Baron, Sr. et al ('609) disclose a weather system in which a three-dimensional model of the weather data may be created by using data from the very recent past. If

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data has been collected and time tagged, then a full three-dimensional model of the weather within the geographic area may be built based upon the old data. Alternatively, the model may be developed without the use of saved data, for example, by building the three-dimensional model, as weather data becomes available. The model may be updated by defining a periodic update period, or "heartbeat," for the data system (see column 8, 24-46).

Thus it would have been obvious to one of ordinary skill in the art to provide a weather model for the radar system of either Ammar et al ('926) or Kuntman ('558) as taught and as motivated by Baron, Sr. et al ('609) in order to process the radar returns to generate a weather radar display system.

Allowable Subject Matter

5. Claims 1-10 are allowed.

Conclusion

- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The cited prior art show various radar systems.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John B. Sotomayor whose telephone number is 703-306-4170. The examiner can normally be reached on Monday to Friday from 8:30AM to 5:00PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom H. Tarcza, can be reached on 703-306-4171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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